

OUTLOOK

October 23, 1989

University Receives Funding for Thai Information Management Project

The Royal Thai Government has awarded \$437,000 to the university for the second phase of an information management project in Thailand.

Ward Zerbe, International Development Management Center (IDMC) faculty member, left for Bangkok, Thailand in September. He will execute the one-year contract, providing management information systems expertise to track and document activities for Thailand's Affected Thai Village Program (ATVP), which was initiated in 1978 to help secure the settlement of Thai villagers in troubled border areas.

"It opens up new possibilities of dialogue with Thailand," says IDMC Director Marcus Ingle, who foresees the potential for establishing a permanent Thailand regional office for the university.

Zerbe, who has six years of computer systems experience, originally went to Thailand last November to help develop a computerized system under Phase I of support to ATVP.

The funding for 1989 to 1990 was awarded to the university based on the

success of Phase I and the establishment of working relationships, says Ingle.

While the major focus of IDMC's work will initially be information management systems, Ingle says that he expects the technology applications to expand the university's role into other programs and sectors within Thailand as well.

"The commitment of the prime minister of Thailand is for five years," says Ingle. "The Phase II funding provides the opportunity for the university and the Thai government to negotiate the remaining three years of the project."

Ingle adds that the new challenges could include human resource development, as well as biotechnology and natural resources management.

"It's a great opportunity for the university," says Zerbe. "There are prospects for involvement in other extension and research activities. IDMC can play a role in linking up Maryland organizations with Thailand and other Asian countries." ■

—Lisa Gregory



Norton Seeks Senate Support for Regents' Version of System Budget

Interim Chancellor James A. Norton urged Campus Senate members to support system budget plans in a speech at the group's Oct. 12 meeting.

Speaking about the recent disagreement between the Board of Regents and the Maryland Higher Education Commission over funding and priorities in the proposed FY 1991 system budget, Norton said, "College Park has been mostly spared from these cuts, but I don't think you can take a great deal of comfort in that. There appear to be operating principles behind the [education commission budget] that will eventually be damaging to every campus, including this one."

At issue is the education commission's recommendation to reduce by half the \$36 million for new programs proposed in the regents FY 1991 budget. Norton called the cuts drastic in nature and described the commission recommendations as being at odds with the regents' priorities for the system.

In other business, the senate voted to create an ad hoc committee to refine a proposed policy on appointment, rank and tenure. The senate's executive committee recommended the action after suggesting that the legal implications of

the document need further study and that some sections need clarification. However, the senate agreed that the current proposal generally fulfills its goal for the document and is nearly complete.

Members of the ad hoc committee will be appointed by the senate and the president's office. The ad hoc committee's work is scheduled for completion by the Dec. 7 senate meeting. ■

—Brian Busek

Senate Appoints 1989-90 Executive Committee

The Campus Senate has appointed its executive committee for the 1989-90 year. The committee includes: Marvin Breslow (history), David Lockard (botany), Alan Pasch (philosophy), Thomas Regan (chemical and nuclear engineering), Mady Segal (sociology), Paul Smith (mathematics), Susan Taylor (business and management), John Menard (computer, mathematical, and physical sciences), Carol Prier (engineering), Laura Head (undergraduate student) and Stephanie Stockman (graduate student). ■

Agricultural Economist Named USDA Assistant Secretary



Bruce L. Gardner

Bruce L. Gardner, UMCP professor of agricultural and resource economics at the University of Maryland at College Park, was sworn in October 10 as the United States assistant secretary of

agriculture for economics. His nomination, submitted by President George Bush on September 27, was confirmed unanimously by the U.S. Senate on Oct. 6.

Raymond J. Miller, vice chancellor for agriculture and natural resources with the University of Maryland System, called the appointment well-deserved.

"Dr. Gardner's professional career has been devoted almost exclusively to the economics of agriculture," Miller says.

"He is widely respected by his peers in the United States, Canada and Europe for his research in such areas as farm commodity markets, income redistribution, grain storage and futures market prices. His appointment should strengthen relationships among the Maryland Agricultural Experiment Station, the Cooperative Extension Service

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Job Fair on Careers in Student Affairs

A job fair for graduate students interested in careers in student affairs will be held from 1 p.m. to 4 p.m. Wed., Oct. 25, in the Benjamin Building. Representatives from graduate master's degree programs in counseling, student development and higher educational administration will be available to answer questions. For more information call 454-2026.

RESEARCH HIGHLIGHTS

Looking for Tomorrow's Refrigerator



Reinhard Radermacher and energy laboratory.

Three standard, 18-cubic-foot refrigerators, the kind that might be found in any kitchen in America, sit empty in an insulated chamber in the energy laboratory on the 4th floor of the Engineering Classroom Building.

Each is wired with as many as 60 probes that measure temperatures, pressures and flow rates. These sensors are tied to a computerized data acquisition system that records readings every minute.

The refrigerators are guinea pigs in a research project that associate professor of mechanical engineering Reinhard Radermacher hopes will lead to what he

calls the refrigerator of the future.

"Our task is to develop the next generation of energy efficient and environmentally safe household refrigerators," Radermacher says.

The project is supported by funding totalling nearly \$400,000 from the Environmental Protection Agency, Pennsylvania, a manufacturer of refrigerants, and the College of Engineering and the Engineering Research Center.

The refrigerator is the home's most steady consumer of electricity, Radermacher says. Across the country, around the clock, day after day, year after year, some 50 million of these appliances are in operation.

The refrigerants now used in their cooling systems contain CFCs that eventually leak into the air and are linked to the depletion of the Earth's protective ozone layer. Burning fossil fuels used to produce the electricity needed to run refrigerators contributes to the increase in carbon dioxide and the "greenhouse effect" that EPA scientists say is already a reality.

"We want to develop ozone-safe refrigerants and design a refrigerator that is considerably more energy efficient than today's models," the UMCP researcher says.

Assisting in the project are Douglas Jung, research scientist, Martin Robinson, a full-time engineer, and two graduate students Jeong Kim and Evren Bayoglu.

Plans call for the experimental use of various fluids or mixtures of fluids as alternative coolants to the refrigerant R-12 that is now widely used in household refrigerators. These include mixtures such as R22/R123 and R22/R142B. R-22 has a 5 percent ozone depletion potential and will be replaced ultimately as new components become available.

To improve the refrigerator's energy efficiency, the researchers propose installing two evaporators in the appliance. Virtually all household units operate with one.

Home refrigerators, like all refrigerator systems, employ a condenser, a compressor and an evaporator. The compressor must work very hard to maintain the 5 degree F temperature in the freezer compartment, Radermacher notes. That cold air is circulated by a fan and ducts into the food compartment as well where the temperature is between 40 to 42 degrees F which is very inefficient. By using a refrigerant mixture and two separate evaporators, two completely

separate cooling loops are approximated. The temperature levels required within the unit are spread out, one for the freezer and one for the food compartment resulting in much less work for the compressor. The result would be a 20 percent increase in efficiency, the UMCP researcher says. The increase in costs would be smaller than if two complete systems were installed.

Whirlpool, an appliance manufacturer, has donated an 18-cubic foot refrigerator to the research project. It, along with two other standard household brand name units, are housed in an environmental room, a new 14-by-16 foot controlled temperature chamber. Testing takes place at a constant 90 degrees F to comply with Association of Home Appliance Manufacturers codes. Because the properties of many of the experimental refrigerants and mixes of various combinations of the coolants—their pressures and temperatures—being tested are not readily available, the lab has developed the in-house capability to generate by computer thermodynamic diagrams of these fluids and their characteristics.

Other EPA-funded research in the home refrigerator field includes Oak Ridge National Laboratories, Purdue University, the University of Illinois, Urbana-Champaign, the Arthur D. Little Company, the University of Hanover, West Germany, and the National Institute of Standards and Technology.

Radermacher says results of the refrigerator of the future project are not expected to be available for another year or so. ■

—Tom Ottwell

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Ponnamperuma Heads New Chapter of Third World Academy of Sciences

Many scientists from Third World countries work at the University of Maryland at College Park and elsewhere in the United States, but until now, there was no organization to speak for them or their countries.

To encourage scientific and technical development in Third World countries, Nobel Laureate Abdus Salam recently inaugurated the North American Chapter of the Third World Academy of Sciences (TWAS) at College Park.

Salam, president and founder of TWAS, inaugurated the chapter during his September 15 visit to the physics department. He named Cyril Ponnamperuma, professor of chemistry and director of the Laboratory for Chemical Evolution, to be the director of the new chapter.

"There is a vast pool of Third World

scientists in the U.S. and Canada, and through them TWAS hopes to provide new impetus to the Third World development."

The principal objectives of the academy are to recognize and support excellence in scientific research performed by Third World scientists and to promote contacts of scientists from Third World countries among themselves and with the world scientific community.

One of TWAS' unique programs is the Third World Network of scientific organizations and science and technology ministers of Third World countries.

"The network is the most significant aspect of the effort of TWAS to involve top science policy makers in its programs and bring science and technology development at the top of the political

agenda of the Third World countries," explains Ponnamperuma.

He says that the North American chapter is interested in building a network of people concerned about the scientific development of Third World countries.

The chapter hopes to achieve these objectives by hosting a series of seminars and symposia on science issues affecting Third World countries and also by raising issues in the media and the science policy establishment here and elsewhere, Ponnamperuma says.

The new chapter is located at the Laboratory for Chemical Evolution in the Chemistry Building. Further information about membership and other programs can be obtained by calling Ponnamperuma at 454-4059. ■

Strategic Software Initiative Day Set

Demonstrations by faculty and others on how they use spreadsheets, graphics and database management in their classroom instruction will be the focus of Strategic Software Initiative Day, Thurs., Oct. 26 from 10 a.m. to 3 p.m. in the Stamp Student Union. The event is sponsored by several software and hardware vendors including Addison-Wesley, Apple Computer, Digital Equipment Corp., NeXT, IBM, AT&T, SUN Microsystems, and Computer Projection Resources. EDUCOM vice president Steven Gilbert will deliver the luncheon keynote address. For more information, call 454-6030.

Programs Focus on Recruitment of Minority Graduate Students

Two programs, one new and one revived, are breathing new life into the recruitment of minority graduate students at the University of Maryland at College Park.

From Sunday, October 22 through Tuesday, October 24, over 150 minority undergraduates from 30 colleges and universities will be on campus for the first ever Graduate Minority Visitation Program.

While here, the participants will tour the campus and attend departmental orientations where they can meet with faculty members to discuss graduate opportunities.

"The best way to attract students is to bring them to campus and let them talk with professors about their interests," says Dario Cortes, associate dean of the Graduate School and director of the Office of Graduate Minority Affairs. "This is the first recruitment program where so

many talented minority students have been brought to the campus at one time."

According to Cortes, the students attending the Graduate Minority Visitation Program are the cream of the crop in their schools and are probably the most serious about graduate education.

To be considered, students must have at least a 3.0 cumulative grade point average, must be scheduled to complete their undergraduate degree by the spring of 1990, must be currently registered for the GRE, GMAT or appropriate standardized exam, and must have submitted a completed application to the University of Maryland, including transcripts and letters of recommendation.

Each of the schools, 95 percent of which are historically black colleges and universities, was invited to send its five best minority students and one faculty representative. The University of Maryland is paying all expenses, including ground transportation, meals and

lodging at a nearby hotel.

Some of the schools involved in the program include Coppin, Towson, Bowie and Morgan State Universities, the University of the District of Columbia, Delaware State, Spellman College, Penn State, Lehman College and the University of Maryland at College Park. The major fields of study for registered students include business and management, computer science, English, engineering, mathematics and government and politics.

One of the highlights of the Graduate Minority Visitation Program is a banquet for the visiting students on Monday, October 23 at 6:30 p.m. in the Grand Ballroom of the Stamp Union. President William Kirwan will welcome the students and introduce the keynote speaker, Howard Adams, director of the National Consortium for Graduate Degrees for Minorities in Engineering, commonly known as the GEM

Fellowships.

This fellowship program, which is based at the University of Notre Dame, pays for all tuition and fees and provides a \$6,000 stipend each academic year.

In past years, only one or two GEM fellows have chosen to study at College Park each year. But this year, as a result of a letter-writing campaign to all GEM candidates and additional money from the Graduate School, eight GEM fellows have enrolled in graduate engineering programs at Maryland.

"The GEM program is important because it specifically encourages talented minority students to pursue a career in engineering," says Jim Newton, assistant to the dean of the College of Engineering and the person chiefly responsible for recruiting the GEM Fellows. "More importantly, GEM helps ensure the growth of minority faculty in engineering, which is vital to recruitment of minorities at the undergraduate level."

—John Fritz

Veteran Counseling Center Staffer Named Director



Vivian Boyd

Vivian Boyd, a member of the Department of Counseling and Personnel Services faculty, is the new director of the Counseling Center.

Boyd earned both her master's and doctoral degrees at UMCP. During her almost 18-year affiliation with the College Park campus she has served as a staff psychologist, acting assistant director of

the Counseling Service, permanent assistant director, and following the retirement last January of Thomas Magoon, acting director of the Counseling Center.

She oversees all five of the center's divisions—counseling service, learning assistance service, disabled student service, parent consultation and child evaluation service, and a testing, research and data processing unit—and its nearly 50 professional and support staff.

The center, she believes, should operate like "a giant supermarket."

"No one should come here and not be able to get some type of answer to a specific concern or problem."

Between 5,000 to 6,000 students and several hundred staff and faculty members avail themselves of the center's services each year. Learning assistance and short- and long-term counseling account for most of this client load, Boyd says.

She notes that the center ranks among the first in the nation in the production of psychological data about the growth and development of college students.

"Other universities tend to look to our research for leadership and how to build better programs to meet student and community needs," she says, "and our model has been duplicated at many other university counseling centers throughout the country."

Boyd says the center is "integral to the education process; our mission is right at the heart of the campus' Enhancement Plan and its efforts to improve the quality of undergraduate education." ■

Gardner Sworn In as New USDA Assistant Secretary

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and the USDA."

Darrell Hueth, chair of the Department of Agricultural and Resource Economics, noted that Gardner will be on leave from his College Park campus duties during his tenure at the USDA.

Hueth is optimistic about Gardner returning to the university. Hueth says that this experience will significantly benefit Gardner's already exceptional research and teaching program and will enhance the reputation of UMCP as a focal point for national and international agriculture policy research.

In a preliminary hearing on October 3, Gardner told a sub-group of the U.S. Senate Agriculture Committee that no government policy measure could do more for U.S. farmers than "achieving a level playing field for our commodities in international trade."

He called for an end to subsidies and import restraints in other countries which result in restricted access for U.S. farm products to those foreign markets.

"Of course, gaining this access will involve policy adjustments of our own which may not be easy," Gardner admits. "One of the biggest challenges we face is how to bring about national and international policies that will serve the best long-term interests of both agriculture and the economy as a whole."

In response to a question from Senator Richard Lugar (R-Ind.), Gardner stuck by a statement he made in 1985 that "any attempt to raise farm prices by

drastic curbs in production could be an economic disaster."

He declared that the situation now is even less favorable for supply management because the international angle has become so important.

An Illinois native, Gardner grew up on a dairy farm northwest of Chicago which is still operated by his brother. He graduated from the University of Illinois in 1964 with a B.S. degree in agricultural economics.

Four years later, he earned a Ph.D. degree in economics at the University of Chicago. His major professor there was the world-renowned Theodore W. Schultz, co-winner of the Nobel Prize for economic science in 1979 in connection with his work on economic problems of developing nations.

Gardner was an agricultural economics faculty member at North Carolina State University (1968-75) and Texas A and M University (1977-81) before coming to UMCP eight years ago. From 1975 to 1977, he was a senior staff agricultural economist in Washington, D.C., for the President's Council of Economic Advisors.

This summer Gardner was elected president-elect of the American Agricultural Economics Association and named a fellow of the AAEE. He has been associate editor of the *American Journal of Agricultural Economics* since 1983. ■

—T. Milton Nelson

Calendar

Oct. 23 to Nov. 1

Chaim Potok to Speak as Part of Jewish Student Center 50th Anniversary

Acclaimed author Chaim Potok will speak at the University of Maryland at College Park on Thursday, October 26 at 7:30 p.m. in the Grand Ballroom of the Stamp Union. His topic will be "Authority and Rebellion: The Struggle of the Individual for Independence in Modern Society." Potok's appearance is part of an ongoing series of events celebrating Hillel's fiftieth anniversary at the university. Tickets are \$5 for students and \$7.50 for the general public. Before the evening lecture, Potok will have a book signing at 4-5 p.m. in the University Book Center. For more information, call 422-6200.



Members of *Thokoza*, one of four groups performing in the New York African Heritage Tour Saturday, October 28 at 8:30 p.m. in the Center of Adult Education.

23 MON

Art Exhibitions Temporary Closing: through Oct. 29 for installation; "Picturing America: Art as Expression and Education, 1920-1945" and "The Andy Warhol Athlete Portraits," selections from the permanent collection, will reopen Oct. 30 and continue through Nov. 22, The Art Gallery, Art/Sociology Bldg. Call x2763 for info.

Architecture Exhibit: "Nikken Sekkei: Its Ninety Years and the Modernization of Japan," through November 15, Architecture Gallery. Call x3427 for info.

Literary Theories of Beginnings/Endings Lecture: "Simone de Beauvoir: The Making of an Intellectual Woman," Torii Moi, Duke U., 3:30 Art/Sociology Bldg. Call x2511 for info.

University Theatre: "Antigone," by Jean Anouilh, translated into English by Lewis Galantiere, 8 p.m., Rudolph E. Pugliese Theatre, \$7 standard admission, \$5.50 seniors and students, through Oct. 29. Call x2201 for info.*

24 TUE

Maryland Field Hockey vs. Richmond, 6:30 p.m., Turf Field. Call x2468 for info.

Movies: "Stagecoach" and "Roaring 20s," Hoff Theater. Call x2594 for info.*

25 WED

Research and Development Meeting: "An Update on Chinese Students and Scholars at the University of Maryland," Valerie Woolston, noon, 0106 Shoemaker Bldg. Call x2932 for info.

Campus Recreation Services Predicted-Time Walk, a competition between faculty, staff, and students for closest finish of a 2.5 mile course in a predicted time, noon, Reckord Armory. Call x3124 for info.

Student Affairs Graduate School Forum and Fair, 1 p.m.-4 p.m., Benjamin Bldg. Call x2026 for info.

Zoology Colloquium: "Direct and Indirect Effects of Fish Predation on Insect Assemblages in Neotropical Streams," 3 p.m., 1208 Zoo/Psych. Bldg. Call x3202 for info.

Center on Population, Gender, and Social Inequality Lecture: "The Tension Between Science and Politics in the U. S. Census," Harvey Choldin, U. of Illinois, Urbana, 3:30 p.m., 2115, Art/Soc. Bldg. Call x3112 for info.

Science and Technology in Society Lecture: "The Social Effects of Advanced Computer Systems," Klaus Fuchs-Kittowski, Humboldt U., Berlin, GDR, 7:30 p.m., 2309 Art/Soc. Bldg. Call x8862 for info.

Movies: "Roaring 20s" and "Stagecoach," Hoff Theater. Call x2594 for info.*

26 THU

Strategic Software Initiative Day, featuring demonstrations by faculty and others on how they use spreadsheets, graphics, and database management in the classroom, 10 a.m.-3 p.m., Stamp Union, keynote luncheon address by Steven Gilbert, EDUCOM. Call x6030 for info.

Continuing Medical Education Lecture: "Infections in Patients with Autoimmune Diseases," Stephen Ray Mitchell, Georgetown U. Medical Center, 12:30-1:30 p.m., 3100e University Health Center. Call x6751 for info.

Meteorology Seminar: "Global Coupled Ocean-Atmosphere Modeling," Paul Schopf, NASA, 3:30 p.m., 2114 Computer and Space Sciences Bldg. Call x2708 for info.

CHPS Seminar: "On the Logic of Testing Models of Cognition Through the Analysis of Brain-Damaged Performance," Jeffrey Bub, 4 p.m., 1117 Francis Scott Key Bldg. Call x2850 for info.

Space Science Seminar: "Study of Electron Energization at a Nearly Perpendicular Bow Shock," Dietmar Krauss-Varban, 4:30 p.m., 1113 Computer & Space Sciences Bldg. Call x3136 for info.

CRABS Dramatic Voices Performance, featuring London actor/director Percy Steven and students reading from Shakespeare, the King James Bible and Dickens, today and tomorrow, 7 p.m., Tawes Recital Hall, \$3 p.m. Call x2740 for info.*

Hillel 50th Anniversary Lecture: "Authority and Rebellion: The Struggle of the Individual for Independence in Modern Society," Chaim Potok, 7:30 p.m., Grand Ballroom, Stamp Union, \$7.50 and \$5. Call 422-6200 for info.

Early American History Colloquium: "The Archaeology of Seventeenth-Century Africans in the Chesapeake Bay Region," Matthew C. Emerson, 8 p.m., 1104 Stamp Student Union. Call x2843 for info.

India Cultural Week Dance Performance, with Nilimma Devi, today and tomorrow, 8 p.m., Studio Theater EE, \$8 and \$5. Call x4056 for info.

Movie: "Scandal," Hoff Theater. Call x2594 for info.*

27 FRI

Mental Health Lunch 'N Learn Lecture: "Inherited Factors in Affective Disorder," Wade Berrettini, NIH, 1 p.m., 3100E University Health Center. Call x4925 for info.

Computer Science Center Software Forum: "Hypermedia and its Applications," featuring discussion and demonstrations on the uses of HyperMedia, including Hypercard and Hyperties, 1:30-4:30 p.m., 2324 Computer Science Center. Call x6030 for info.

History Department Revolutions Lecture: "American Revolution: 'History From the Bottom Up' Twenty Years After," Alfred A. Young, Northern Illinois U., 3 p.m., 2205 LeFrak Hall. Call x2843 for info.

University Theatre: "Antigone," 8 p.m., see Oct. 23 for details.

Movies: "Scandal" and "Eraserhead," Hoff Theater. Call x2594 for info.*

28 SAT

Parent's Day, time and place of events TBA. Call x2938 for info.

ACC Cross Country Championships, 10 a.m., Golf Course. Call x4816 for info.

Maryland Football vs. North Carolina, noon, Byrd Stadium. Call x2123 for info.*

Maryland Gospel Extravaganza, featuring gospel choirs from area colleges and universities, 4 p.m., Center of Adult Education. Call x5774 for info.*

New York African Heritage Tour, featuring Zulu choral music, Mandinka epic songs, Afro-Caribbean dance-drumming and gospel from New York communities, pre-concert seminar at 7 p.m., concert at 8:30 p.m. Call x2803 for info.*

University Theatre: "Antigone," 8 p.m., see Oct. 23 for details.

Movies: "Scandal" and "Eraserhead," Hoff Theater. Call x2594 for info.*

29 SUN

Men's Soccer vs. George Mason, 2 p.m., Denton Field. Call x2123 for info.

University Theatre: "Antigone," 2 & 8 p.m., see Oct. 23 for details.

Movie: "Scandal," Hoff Theater. Call x2594 for info.*

30 MON

Computer Science Colloquium: "On the Emergence of Goal-Seeking Behavior," David L. Waltz, Thinking Machines Corporation, 4 p.m., 0111 Classroom Bldg. Call x4244 for info.

Horticulture Seminar: "Mechanism of Flowering of *Aeschynanthus* 'Koral'," Brooks Whitton, 4 p.m., 0128B Holzapfel Hall. Call x3614 for info.

31 TUE

CRS Registration Closes, for Racquetball Doubles, 3-on-3 Basketball, Coed Full Court Basketball. Call x3124 for info.

Center for Jewish Studies Lecture: "The Status of Women in the Talmud," Judith Romney Wegner, U. of Massachusetts, 9:30 a.m., 0101 Jimenez Hall. Call x7251 for info.

Zoology Seminar: "Levels of Selection, Evolution of Sex in RNA Viruses, and Origin of Life," Lin Chao, noon, 1208 Zoo/Psych. Bldg. Call x3202 for info.

Center for Jewish Studies Lecture: "Faith and Reason in Judaism: The Controversy Over Philosophy," Raphael Jospe, 12:30 p.m., 3205 Jimenez Hall. Call x7251 for info.

Physics and Astronomy Colloquium: "Electroweak Results from DFC," Lee Pondrom, U. of Wisconsin, Madison, 4 p.m., 1410 Physics Bldg. Call x3512 for info.

Spanish & Portuguese 1992 Lecture: "Transformations of Time and Space: Oaxaca, Mexico c.1500-1700," Arthur Miller, 5 p.m., 2309 Art/Soc. Bldg. Call x4305/6 for info.

Feminism Seminar: "Gender and Deaf Culture," Barbara Kannapel, founder, Deaf Pride, 8 p.m., 2203 Art/Soc. Bldg. Call x3841 for info.

Movies: "Son of Frankenstein" and "Hound of the Baskervilles," Hoff Theater. Call x2594 for info.*

1 WED

CRS Registration Begins, for Team Billiards. Call x3124 for info.

Employee Development Seminar: "Improving Your Job Performance," Maryland State Clerical Training Institute, 9 a.m.-4 p.m., Physical Plant Training Room, Maryland Fire and Rescue Institute, 2nd Floor, \$25. Call x4811 for info.*

Research and Development Meeting: "Sign Language Interpretation: The State of the Art," Carol Wilde-Mermon, noon, 0106 Shoemaker Bldg. Call x2932 for info.

International Coffee Hour, 3-4:30 p.m., 0205 Jimenez Hall. Call x4925 for info.

Zoology Colloquium: "Directed Mutagenesis: Is Natural Selection a Composer or an Editor of Genetic Variation," Bruce Levin, UMASS, Amherst, 3 p.m., 1208 Zoo/Psych. Bldg. Call x3202 for info.

Writers Here and Now Poetry Reading, featuring C. D. Wright, 3:30 p.m., Katherine Anne Porter Room, McKeldin Library. Call x2511 for info.

Career Development Center Workshop, "Job Search Strategies for Practical Training: A Workshop for F-1 & J-1 Visa Holders," featuring recent UMCP international graduates, 4-6 p.m., Room S, Hornbake Library. Call x2813 for info.

1989 Kibel Architecture Lecture: "Remnants, Traces, Transformations," Peter Rose, 7:30 p.m., Architecture Auditorium. Call x3427 for info.

Women's Volleyball vs. Georgetown, 8 p.m., Cole Field House. Call x2123 for info.

* Admission charge for this event. All others are free.

Calendar information may be sent to John Fritz, 2101 Turner Laboratory or (via electronic mail) to jlfritz@pres.umd.edu.

Concert Band Will Present Free Concert

The University of Maryland Concert Band, under the direction of L. Richmond Sparks, will present a concert at the Adele Stamp Student Union on Wednesday, Oct. 25 at 8 p.m. The ensemble will perform a variety of music including John Barnes Chance's "Incantation and Dance," Clifton William's "Fanfare and Allegro," several marches and an arrangement of "My Fair Lady." There is no admission charge. Call 454-6803 for information.

ARTS AT MARYLAND

Fry Finds New Thread of History in Old Quilts

In 1979, folklorist Gladys-Marie Fry began a modest research project on contemporary black quilt makers.

Supported with a grant in the grand sum of \$600, Fry, associate professor of English, mailed some 3,000 letters to museums, libraries, historical societies and crafts dealers throughout the South enquiring about quilt makers.

The response was underwhelming. The experts consulted by Fry offered few leads. In fact, Fry received more information about a subject she hadn't asked about at all—slave quilts.

Many of Fry's letter writers mentioned that they had seen or knew of slave quilts.

"The first few letters with notes like that I just filed away. I wanted to do something with contemporary quilt-making. But the file kept growing and finally it occurred to me that I should scrap the original project and focus on slave quilts," Fry says.

The decision proved an extraordinary amount of work and a smashing success.

For nearly nine years, Fry has tracked down quilts that owners believed were the work of slaves and then proceeded with the laborious task of sifting through plantation records and government materials to find documentation that verified the assertions.

"[One colleague] told me that finding documentation about the quilts would be like finding the proverbial needle in a haystack," Fry says.

But Fry persisted and through her work has identified nearly 100 surviving, slave-made quilts.

Striking in color and design, Fry's project is receiving national attention through a museum exhibit, "Stitched From the Soul: Slave Quilting in the Ante-Bellum South" that she has curated on slave quilting. The exhibit is on display at the Smithsonian Institution's Renwick Gallery through Jan. 1. Among a variety of programs associated with the exhibit is an all-day symposium "African-American Quilts—Past and Present" on Nov. 18. The gallery is located on Pennsylvania Avenue at 17th Street. (For exhibit information call 357-2531.)

Beyond the physical beauty of quilts lies a deeper significance, Fry says. The quilts reveal much of the life and character of skilled slave women—a much neglected subject, she says.

"Much has been written about male slaves as skilled workers—carpenters, iron makers, furniture makers and so forth. But there is nothing about skilled women in the [scholarly literature]."

"I was working at this project a long time before I found any books or dissertations that sounded promising. Finally, in a southern university's collection I came across a 1930 dissertation with the title 'Skilled Slave Women.' I was excited; I thought I had finally found what I was looking for. But all [the paper]

talked about was market women, field slaves and house slaves. There was not a single reference to slave women as seamstresses or engaged in other skilled work; the whole area of skilled women had not been acknowledged."

In her exhibit catalog, Fry describes the life and work of such women. She discusses how, where and under what conditions, they worked. She also shows how slave women used images from their African cultural heritage in their work.

As she became familiar with the women, the quilt-makers made a profound impression on Fry.

"I am in awe of these women, at the skill and desire that we see in their work. They would spend the entire day in the field, then they had to do their night chores, and then they sewed their quilts under what light they had—usually pine tar.

"I ask myself: Would I have done that? Would I have had that passion to create? These women did. It was a powerful means of expression for them, and it helped them survive a humiliating and dehumanizing experience," Fry says. ■

—Brian Busek



Gladys-Marie Fry displays a slave-made quilt.

AL DANEGGER

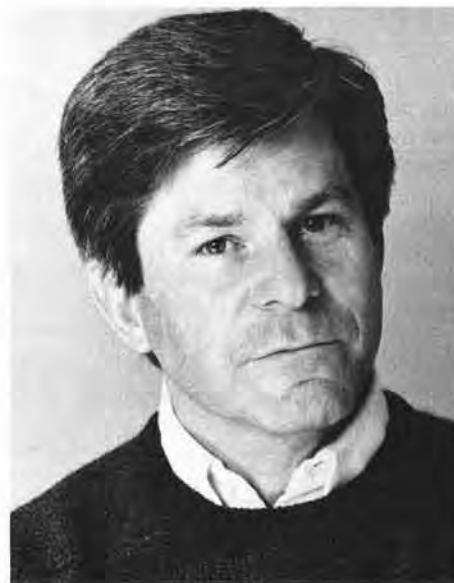
Guest Director Shares Skills With Classes in Arts and Humanities

Even as he jumps from one branch to another in the College of Arts and Humanities, Percy Steven demurs from a particular description of his activities at College Park.

"Rather than having me come here and just do [performances and classes], I suggested that we find ways in which we could actively involve the students. It didn't seem useful to have me come and just be a performing monkey," says Steven.

The veteran Shakespearean actor and director is here during October to give master classes, performances and classroom visits in theatre, English, classics, French, art history and history. In addition, Steven is directing students in "Dramatic Voices," a public reading of literary works that will be held at 7 p.m. Oct. 26-27 in Tawes Recital Hall. His visit is sponsored by the Center for Renaissance and Baroque Studies.

As part of a busy itinerary, Steven has visited as many as four regular arts and humanities classes daily, conducted two master classes and presented two public performances. His classroom visits have included six different departments, and he has spoken on such topics as Shakespearean costume (art history), modern staging of classical Greek plays (classics), the relationship between the



Percy Steven

staging of a play and the study of history (history) and readings from modern French drama (French).

Steven's versatility comes with the experience of a colorful career. He has acted and directed in Shakespearean and modern theater both in England and the United States, and as an educator, he spent four years as artistic director and head of acting at the Rose Bruford College in England.

Despite Steven's chaotic schedule at College Park, his ideas about teaching theater and literature steadily follow several basic themes.

"I try to show that the director and the actor are similar to the scholar in that all three must examine texts in great detail to do their work," Steven says.

"For actors and directors it is important to decipher the real meaning of a text and then to understand the style the writer is using. This is a process of investigation."

With dramatic literature, the study of a work is not only a mental exercise, according to Steven.

"To some extent the words themselves are immaterial; they have another function. Plays are written to be seen on stage as well as read. [To help students understand] this I often have them read and perform the scenes to gain a sense of how the language functions," he says.

Given that philosophy, the dramatic readings on Oct. 26-27 are an appropriate capstone for Steven's visit. The authors whose works will be read by graduate and undergraduate students during the performances include Shakespeare, Milton, T.S. Eliot and Virginia Woolf. ■

—Brian Busek

Graduate and Professional School Fair to be Held October 24 and 25

The University of Maryland at College Park is one of 11 colleges and universities in the Washington, D.C. area sponsoring the 12th Annual Graduate and Professional School Fair on Oct. 24 and 25 at The George Washington University. Located on the 3rd floor of the Marvin Center, 21st and H Streets, N.W., the fair will feature over 200 admissions representatives from universities nationwide. Law school representatives will be available on Oct. 24, 2-7 p.m.; Graduate school representatives will be available on Oct. 25, 2-7 p.m. Call the Career Development Center at 454-2813 for information.

CLOSE UP

University Gives Campus-wide School Partnerships a Boost

The University of Maryland at College Park is reaching out. With the increased support of school/university cooperation within the offices of the president and vice-president, UMCP is hoping to enhance campus-wide communication and cooperation between the university and the 24 public school systems in the state.

"Cooperative programs enhance the university's recruitment efforts and help ensure that future university students have academic skills and knowledge to perform well," says Muriel Sloan, assistant vice president of Academic Affairs, who oversees campus-wide cooperative efforts.

A sign of the increased support and growth of the university's cooperative efforts is the recent hiring of a school/university program coordinator, Marilyn Scannell.

"We are one of the few institutions in the country that have a program like this within the office of the Vice President for Academic Affairs," says Scannell. "We truly want this to be a model for the state and country."

According to Sloan, the university has had a long history of cooperation with public schools with some programs dating as far back as the 1950s.

"Cooperative programs enhance the university's recruitment efforts..."

—Muriel Sloan

"Our objective is to build upon that solid foundation," says Sloan. "In addition, programs with the schools often stimulate important research projects for both university faculty and students and provide experiential learning opportunities for students."

Specific program objectives include enhancing communication and dissemination of information between the institution and the schools, facilitating the broad involvement of UMCP's academic units in cooperative initiatives with the schools, providing ongoing support for campus-school collaborative activities that are working well, continuing to work with the Maryland State Department of Education and the Maryland Higher Education Commission to develop statewide cooperative efforts with public schools, developing and disseminating information regarding promising new school/university cooperative efforts, and seeking and disseminating information regarding funding sources for

"We truly want to be a model for the state and country..."

—Marilyn Scannell

school/university cooperative efforts.

This past year the first directory of cooperative programs and partnerships between UMCP and the state's public schools, entitled "Beyond the Campus: Partnerships with the Schools," was published.

"It documents the more than 145 cooperative programs that exist throughout the university with the 24 schools systems," says Sloan. "Further, the university's enhancement plan specifies expanding partnerships with public schools as a priority, ensuring the university's continuing commitment to school/university cooperation."

Benefits to the schools cooperating with the university include professional development opportunities for administrators and faculty, and curriculum development programs, intervention programs for at-risk students, advanced courses for high school students, student mentoring and tutoring, and classroom assistance for school faculty.

The program is the result of a recommendation of the 1985 Chancellor's Task Force on School/University Cooperation. At that time that commission stated that UMCP should have a "permanent mechanism for enhancing communication among the schools, the university, and the Maryland State Department of Education."

"Almost all of UMCP's colleges are involved in some form of school/university partnership," says Sloan.

Currently 36 departments on the UMCP campus are involved in school/university-type activities. Programs include the Center for Renaissance and Baroque Studies' Center Alliance for Secondary School Teachers and Texts (CAST), which is a three-year program for high school teachers of English in Maryland. The program includes bi-monthly institutes taught by faculty from the Department of English at three locations across the state.

Institutes enable teachers to study in depth the major works currently included in their curricula, explore new works, and visit with noted scholars. In addition to the institute, the program includes one-day teacher workshops, a high school student drama festival and a Shakespeare feast.

Prince George's County Public Schools provide on-site infant care at Northwestern High School for adolescent parents attending the high school. Participating in the multi-institution effort to

develop the day care center were the Department of Human Development, Department of Family and Community Development and the Office of the Assistant Vice President for Academic Affairs. A representative from UMCP will be a member of the day care center advisory committee.

Through this effort, the university provided access to research information on day care centers, interns to work directly with the program, infant care and parenting curriculum for adolescent parents, staff development for Northwestern faculty and designs for program evaluation.

The Northwestern Collaborative Project provides student-centered college

"Almost all of UMCP's colleges are involved in some form of school/university partnership."

—Muriel Sloan

preparation experiences, including college visitations and related opportunities. Initiated by an agreement between the university chancellor and the Prince George's County Superintendent of Schools, numerous colleges, including Education, Engineering, Computer, Mathematical and Physical Sciences, Human Ecology and Undergraduate Studies, provide services to Northwestern High School.

Maryland Images is an organization created by currently enrolled students and Undergraduate Admissions to accurately represent the students' view of the college experiences at the university. UMCP students in Maryland Images meet with high school students to provide insight into the higher education experience.

The Department of Physics participates in three different programs, including Physics is Fun, Physics Olympiad and Physics Olympics.

Physics is Fun provides counter-intuitive physics demonstrations for pre-college students.

The five-day Physics Olympiad is an international competition where contestants solve challenging physics problems. The American Association of Physics Teachers had primary management responsibility for the 1988 Olympiad.

The Physics Olympics is a competition between high school physics teams from Maryland, Virginia and Washington, D.C.

The Departments of Chemistry, Physics and Mathematics participate in a

"...programs with the schools often stimulate important research projects for both university faculty and students and provide experiential learning opportunities for students."

—Muriel Sloan

program in which a high school teacher, chosen jointly by Montgomery County and UMCP, spends a year on campus taking courses in his/her subject area and teaching sections of freshman level courses. Both Montgomery and Howard Counties have participated in the program.

Teacher education centers are located in Anne Arundel, Charles, Montgomery, Northern Howard and Southern Howard Counties.

The centers are a cluster of identified schools which are utilized as placement sites for university students participating in student teaching or other types of field observation. Each center operates under the direction of a coordinator who holds a joint appointment between the university and the particular school system. The coordinator functions in many roles including supervising student teachers, conducting student teacher seminars, training cooperating teachers, disseminating and participating in research on teaching and learning, and providing staff development opportunities.

There are also various activities offering opportunities for disadvantaged, minority and/or "at risk" students, including the College Bound Program, College Day, College Prep Day, El Ingeniero, Minority Focus Day, Minority Freshman Weekend, Minority Scholars in Computer Science and Engineering and the Talent Search Program.

"These cooperative efforts are a significant component of the university's goal of service to the state," says Sloan. "With continuing attention to avenues of school/university collaboration, the university is fulfilling its mandate to make research and professional knowledge accessible to the public."

Both Sloan and Scannell hope that in the future the campus community will become even more involved with the program.

"We want to know what other types of programs exist," says Scannell. "Because of the national interest in school/university partnerships we are receiving many requests for descriptions of our programs."

—Lisa Gregory

Fitness Walking Returns to Reckord Armory

Campus Recreation Services is once again offering its 6-week instructional program for faculty, staff, and students interested in beginning a fitness walking regimen. Starting Oct. 30, the free classes will meet on Mondays, Wednesdays, and Thursdays at noon. Those interested must register by Nov. 2 at the CRS office (1104 Reckord Armory). For more information, attend the Oct. 30 meeting at noon in 0105 Reckord Armory, or call the CRS office at 454-3124.

COLLEGE PARK PEOPLE

Helen O'Ferrall Has Found the Right Balance for Her Life—Responsibility and Play



Helen O'Ferrall

If life were a recipe, Helen O'Ferrall would have all the right ingredients.

"Mix fun and responsibility together," she advises. "Be open to people and ideas. Don't hinder your creativity in whatever form it takes, serve others, love Jesus, family and country. Try to keep a balance in your life."

Helen has done just that.

Not only is she a wife, mother and capable employee at UMCP, where she is an executive administrative aide for the Agricultural Experiment Station, but she is also beginning her third year as the chairperson for the UMCP's President's Commission on Women's Affairs' Eldercare Committee.

"For me," says Helen, who has been

an employee of UMCP for nine years, "involvement with caregiving for the elderly came from a personal commitment, as I think it does for most people."

Several years ago, Helen and her family, husband, Larry, and son, Larry Allen, unexpectedly had to take into their home Helen's two elderly parents.

"I was thrust into the caregiver role," says Helen, who notes that the burden of caring for elderly parents often falls on the shoulders of women. "After experiencing the initial adjustment and frustration of trying to find out available resources, I went before the President's Commission on Women's Affairs to address the caregiver/eldercare issues."

Besides the President's Commission on Women's Affairs, other committees Helen has been involved with include the Personnel Practices Conference Committee, the Classified Issues Committee, and the Undergraduate Women's Education Program.

As a result of Helen's actions, the Women's Commission's Committee on Eldercare was formed to address campus caregiver and eldercare concerns. The committee advises the university on how to better support employees caught between the demands of work and the caring for the physical, emotional or financial needs of elderly family members.

The committee's work has included a review of an independent survey by two UMCP professors in which they asked campus employees about the needs of caregivers. The results of the survey

found that at the time of the survey, during the 1987-88 school year, 15 to 17 percent of employees were providing care.

That same year, the committee also conducted a Resource Fair in which all the local counties sent representatives to the UMCP campus.

More recently, the committee has published and distributed to 6,500 campus employees a brochure, entitled, "You Are Not Alone: The Community of Caregivers." The brochure is a guide to resources and information about eldercare.

The committee has conducted two seminars on adult day care centers and alternative housing and participated in a national conference on balancing a job and caregiving responsibilities.

"This is an issue that is growing in importance as our elderly population escalates, health care costs skyrocket and the number of women in the workforce increases," says Helen, who is constantly encouraging and supporting passage of federal, state and local legislation on eldercare/caregiving bills.

As her work with the Eldercare Committee shows, Helen is always ready to take a risk—whether it be at work or play, as employee or volunteer.

During her nine years as an employee at UMCP, she has moved through the ranks to her present position, including a stop in the Office of the Vice Chancellor for Academic Affairs under then-vice chancellor and provost William E. Kirwan.

"It really broadened my experience on campus," she says of her time in the vice chancellor's office. "I was able to see UMCP in its entirety—scope, direction, personnel, interactions. It was a great opportunity."

She was a member of the New Carrollton Ladies Tennis Club for over 10 years and was co-captain of the team that won the Bowie Cup. She continues to play tennis on campus with friends.

"I love tennis because you can play it on a competitive or social basis," she says. "And it is a lifetime sport. I've been playing for 17 years and, as a matter of fact, the whole family plays because I started them. Everyone needs to be competitive, but in a constructive way."

She has even tried her hand at coaching the National Junior Tennis League for three years. Playing on a county and regional level, her team of youngsters was county champs two out of three years.

She also enjoys dancing and skiing.

Several years ago she was a co-worker for the Billy Graham Crusade in Washington, D.C.

"There must be a balance in all things," she says. "Sometimes the load gets too heavy, and you have to say to yourself, 'Hey, wait a minute, I need to mix things up a little.'"

Helen O'Ferrall has found the right recipe for a balanced life. ■

—Lisa Gregory

For Some, Eldercare Issues are a Daily Reality

The issues of eldercare are complex and growing, Helen O'Ferrall has observed. "As the American population ages, more of us will be thrust into a caregiving role."

When the Eldercare Committee reviewed an independent study by two UMCP professors of some 2,000 university employees about the needs of caregivers, it found that between 15 and 17 percent of campus workers were providing care and another five to ten percent had either just completed or were about to begin caretaking responsibilities.

Outlook spoke with several of them.

Martha Best, administrative aide II in the economics department, is faced with a long-distance care-giving situation. Initially, she says, she was at a loss as to know where to turn for help when she received crisis telephone calls from her 87-year-old mother-in-law in Florida.

Although she is not an invalid and lives in her own home, Best says her mother-in-law found it difficult to confront emergency situations. "My housekeeper is leaving. What shall I do?" And for Best, finding people who could help at long distance was equally

difficult.

Through the campus Eldercare Committee, Best says she learned about centers on aging and other organizations and agencies that provide support to the elderly in the Orlando area.

"It made me more aware where to turn to in crisis situations," she says she no longer feels intimidated in dealing by phone with out-of-town agencies and caregivers or in person when she travels to Florida.

She notes that she was able to initiate a "gatekeeper" program with Orlando utilities companies that is similar to that already in place in this area. Before they cut off a customer's telephone or electric service for failure to pay a bill, PEPCO and Baltimore Gas and Electric contact a third party. Frequently, it turns out that an elderly customer simply forgot to pay the bill.

"For myself, I've learned the importance of being able to help out through respite care so that other members of the family can get a break from the daily care-giving situation," Best says.

"Helen [O'Ferrall] has done an absolutely fantastic job in heading the President's Commission on Women's Affairs Eldercare Committee."

For **Paulette Sweeton**, administrative aide in the Department of Agricultural Extension and Education, perhaps the most valuable resource the campus could provide would be a support group.

Sweeton has been caring for her 80-year-old mother and 79-year-old father for the past three years. Her mother, who must use a wheel chair, requires considerable physical care; her father needs supervision with meals and medication. During the day a nursing aide stays with the couple and in the evenings Sweeton cares for them.

"I think it is important to keep parents as independent as long as possible," she notes. While she was able to maintain that independence with part-time help, visiting nurses and weekend visits, she finally reached the point where it was no longer possible and she took her parents into her own home. "I think it is important to keep them in a home situation as long as possible."

"It is a heavy role to do that and work full-time as well," she says. A campus support group, she believes, would provide emotional support for home caregivers letting them know that others have worked through many of the same different and difficult stages that come

with looking after elderly parents and relatives.

As one of its anticipated activities for the 1989-90 academic year, the Eldercare Committee expects to establish support groups for caregiving needs for campus employees. Other activities include plans to institutionalize caregiving benefits, support and commitment to employees and hold noontime seminars on selected topics.

The committee also expects to take an active role in encouraging and supporting the passage of federal, state and local legislation dealing with eldercare and caregiving concerns.

Committee member **John Thompson**, who cared for his parents until their deaths several years ago, says one of the committee's goals is to "take the puzzle and confusion out of the caregiving process. Because of the hassles in the bureaucracy it is tough sometimes to get the information you need," he says. "What we're trying to do is provide the campus with an overview of what's available in the way of services as well as put caregivers in touch with contact points." ■

—Tom Ottwell

A Great University at College Park: On the Nature and Necessity of an Intellectual Community

The following is from the address delivered by President William E. Kirwan at the sixth annual convocation, held Oct. 6 in Memorial Chapel.

With the press for the development of a plan responsive to the state's call for "peer comparisons," "specific initiatives," and "accountability," we have, as a community, given relatively less consideration to a description of the character of a great university. Collectively, we have not stepped back and asked, what is the essence of a great university? Today I want to share my thoughts with you on this fundamental question. I hope that in the months to come we will develop a collective vision of who we are and what we are becoming as an institution and that we will identify our essential character as more than just an imitation of other institutions that already have achieved distinction. And, as is proper for a subject of this magnitude, I hope my remarks will be received as an invitation for continued discourse, a first word in the shaping of this collective image rather than the last.

For me, a great university—above all else—is a community of individuals charged with the excitement of acquiring, creating and disseminating knowledge, a community, which for the sake of brevity, I will call an intellectual community. Of course, a great university is many other things as well. It is a place for training and job preparation, a place for specialized research, a place for athletics, a place for service to individuals, civic groups, businesses, and agencies of the state. But none of these activities, either alone or together, help to make a university great unless they contribute to the building of an intellectual community.

Let me describe in some detail my conception of a true intellectual community. First and foremost, it is a *community*—that is, a group of people brought together not only by mutual in-

terest, but also by a common bond. That bond is a shared love of learning and knowledge. It is a community that is also a place in which every member extends to the others dignity, acceptance, and respect. Of course there will be differences within the community. Indeed, there must be differences to make it an environment of diversity, creativity, and mutual learning. This is indispensable for an intellectual community. Without an openness to differences, without the ability to criticize the logical validity of ideas, even while affirming the human value of their advocates, a proper climate for learning will not exist.

Such an openness of discourse in the university also fosters and depends upon tolerance and justice in the larger society. Therefore, a great university must be concerned with the philosophical and conceptual foundation for societal norms.... An intellectual community, like human dignity itself, depends upon people having the freedom and the courage to think.

A vibrant intellectual community also must be a hospitable place physically—it needs to have classrooms and labs, grounds and offices, meeting rooms and performance centers that are physically adequate for the work of the community. It must have space that conveys esteem to its inhabitants, space that fosters a sense of pride of place. This is a priority. With our growth in the past decade, we have not even had enough closet space to hide our skeletons—let alone laboratory space to conduct our experiments. This must change....

The notion of intellectual community means that our primary function is education, and not merely training, instruction, or socialization. Let me elaborate on what I mean by education. Training and instruction are specialized activities aimed at transmitting specific skills, usually oriented toward a job or profession. Socialization shapes individuals so that they will fit into a society....

The educator, by contrast, makes in-

formation, skills, and norms serve a higher purpose. This purpose is to introduce the learner to a 'conversation,' a conversation on the nature and meaning of human existence itself....

Education at a great university, then, cultivates each person's inherent capacity to engage consciously and competently with ancestors, contemporaries, and descendants in a conversation about memory and testament, about our nature and our mandate, about all that makes of us more than the bearers of skills, information, or dogma. It is the conversation of democratic enlightenment, in which we become aware of ourselves and our conditions, and so make ourselves free and responsible in our choices. It is a conversation essential to personal dignity and civic participation.

In addition to education, another principal activity of the university is research. In a great university, specialized research should contribute to the overall intellectual community by being placed in relation to the other parts of the larger domain of knowledge. This has less to do with particular disciplines than with the conception and approach of each of them. Thus, in every field we should ask ourselves how our research relates to and interacts with the broader intellectual and civic culture.

This is true not only of the arts, humanities and sciences, but also of the technical and professional disciplines. For example, Maryland has one of the finest colleges of engineering in the world. As part of a great university, such a college does not exist simply to train engineers, or to develop technology to dominate the Russians or out-compete the Japanese. Instead, a great university develops engineering because we know that unless we have an outstanding college of engineering in our institution, we are not going to be able to address the problems that technology presents for society.... Without a broad intellectual approach, the study of technology easily becomes a kind of idolatry—a worship of and submission to our inventions



rather than a mastered guidance of them.

As a great university, we also will serve the state as a source of new knowledge—not merely applying what already is known, but creating new ways of understanding that will lead to techniques and applications yet to be imagined. This will be true of all of our colleges and disciplines, and especially so of our professional schools. Our college of business, for example, is becoming one of the best of its kind in the nation. But as part of a great university its service is not merely to advise the local business community, but more importantly to reflect on the institution of world business and to see how these can be improved.... Its service should not only help individuals to be more effective as business people within the emerging economic environment, but also to be more effective as citizens within the larger civic environment, with a heightened sensitivity to ethics and social responsibility.

Moreover, as a great university we must provide service through being a place for the cultivation of the arts—because the aesthetic dimension of the mind is as important as the analytic. Thus, as an intellectual community, we will maintain traditions and extend creativity in those fields of human practice that give grace and meaning to life even though they may have no apparent commercial value.

These it seems to me, are some central features of a great university for the 21st century of the United States. This vision draws on the traditional conception of the university as a community of learners, a sacred space for intellectual discourse, a place of freedom and dignity. But it also reaches out to the practical requirements of the next millennium—an era in which theoretical knowledge and intellectual culture will be vital for the economic and civic life of our society. ■

Construction Update

Since installation of the new \$32.8 million telecommunication system is resulting in an unusual amount of construction at College Park this fall, *Outlook* will try to let members of the campus community know when the work is coming their way.

We are planning a regular feature in this space which will list new construction work scheduled for the near future. The column will focus on trench work associated with installation of conduit for the telecommunications systems and include information about other major projects likely to cause disruptions in par-

ticular areas of the campus.

The schedule is subject to change due to weather, the pace of construction and other factors.

The information in this column has been compiled with the help of Eric Livingston, construction manager in Engineering and Architectural Services.

Trench work is scheduled for Oct. 23-28:

- The east side of the H. J. Patterson Building with work also on the sidewalk in front of the building;
- The east side of the Skinner Building and Woods Hall;

- The west side of Field House just west of the Byrd Stadium;
- Regents and Stadium Drives in the area of the J.M. Patterson Building;
- The north side of Stadium Drive between Regents and Paint Branch Drives with the sidewalk on the north side of Stadium Drive completely blocked;
- The east side of Stadium Drive in front of the Wind Tunnel with the sidewalk on the west side of the street completely blocked;
- Sidewalk restoration work will continue on Field House Drive and on the east side of the Microbiology building. ■